Unit 1

Lecture 1.9 Quiz

1) In modeling the interaction parameter, the dependence on the interaction between two particles falls off as the separation distance to what power?
   a. 1
   b. 3
   c. 6
   d. 9
   e. 12

2) Regular solution theory predicts that the interaction parameter is:
   a. Dependent on the polarizability of the two species.
   b. Dependent on the nearest neighbors and the next-nearest neighbors.
   c. Always greater than zero.
   d. Both (a) and (b).
   e. Both (a) and (c).
   f. (a), (b), and (c) are correct.

3) If the magnitude of two solubility parameters are close in value, then the interaction parameter will be:
   a. Greater than zero.
   b. Approximately zero.
   c. Less than zero.
   d. Approximately zero if the sign of the two solubility parameters is different.
   e. Never negative.